## PATENT COOPERATION TREATY

# **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	nt's or agent's file reference 035670 <b>–</b> P0	FOR FURTHER	ACTION See Form PCT/IPEA/416						
International application No.		International filing d	late (day/month/year)	Priority date (day/month/year)					
PCT	/JP2004/0169	71 16.11.200	04	05.01.2004					
Internati	International Patent Classification (IPC) or national classification and IPC								
H02P7/63, 7/00									
Applicant  MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.									
1.	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.								
2.	This REPORT consists o	f a total of 4	sheets, including	ng this cover sheet.					
3.	This report is also accom	panied by ANNEXES, comprising	<b>;</b> ;						
	a. (sent to the ap	pplicant and to the International B	<i>Gureau)</i> a total of	sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
		atomational Puragu only) a total of	f (indicate type and nymbo	on of alastuonia agmicu(a)\					
	b (sent to the th	nternational Bureau only) a total of	(indicate type and number	of electronic carrier(s))					
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4.		cations relating to the following ite	ems:						
	Box No. I	Basis of the report							
	Box No. II	Priority							
	Box No. III	•	h regard to novelty inven	tive step and industrial applicability					
	Box No. IV	Lack of unity of invention	in regard to no very, inven	tive step and moustria appreadinty					
	Box No. V	•	: 35(2) with regard to nove	elty, inventive step or industrial applicability;					
	Box No. V Reasoned statement under Future 35(2) with regard to noverly, inventive step of industrial applicability, citations and explanations supporting such statement								
	Box No. VI	Certain documents cited							
	Box No. VII Certain defects in the international application								
	Box No. VIII Certain observations on the international application								
Date of submission of the demand			Date of completion of the	nis report					
Name and mailing address of the IPEA/JP			Authorized officer						
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### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/016971

Вох	No. I	Basis of the report								
1.		n regard to the <b>language</b> , this report is based on the internaticated under this item.	onal application in the language in	which it was filed, unless otherwise						
			report is based on translations from the original language into the following , this the language of a translation furnished for the purposes of:							
		international search (Rule 12.3 and 23.1(b))								
		publication of the international application (Rule 12	.4)							
		international preliminary examination (Rule 55.2 an	d/or 55.3)							
2.	recei		gard to the <b>elements</b> of the international application, this report is based on (replacement sheets which have been furnished to the g Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to ort):							
		the international application as originally filed/furnished								
	$\boxtimes$	the description:								
		pages _ 1,3-9		as originally filed/furnished						
		pages* _ 2,2/1	received by this Authority on	28.09.2005						
		pages*	_ received by this Authority on							
	$\boxtimes$	the claims:								
		nos. <b>2-4</b> , 6 <b>-14</b>		as originally filed/furnished						
		nos.*								
		nos.* 1								
		nos.*								
	$\boxtimes$	the drawings:	_ ,							
				as originally filed/furnished						
		sheets*	received by this Authority on							
		sheets*	_							
	$\Box$		_							
		a sequence listing and/or any related table(s) – see Supple	mental Box Relating to Sequence I	asting.						
3.		The amendments have resulted in the cancellation of:								
		the description, pages								
		the claims, nos. 5	the claims, nos. 5							
		the drawings, sheets/figs	the drawings, sheets/figs							
		the sequence listing (specify):  any table(s) related to sequence listing (specify):								
4.			report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).							
		the description, pages								
		the claims, nos.								
		the drawings, sheets/figs	the drawings, sheets/figs							
		the sequence listing (specify):	the sequence listing (specify):							
		any table(s) related to sequence listing (specify):								
*	If ite	m 4 applies, some or all of those sheets may be marked "su	perseded."							

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Вох			ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement			
	Novelty (N)	Claims	1-4, 6-14	_ YES
		Claims		_ NO
	Inventive step (IS)	Claims	1-4, 6-14	_ YES
		Claims		_ NO
	Industrial applicability (IA)	Claims	1-4, 6-14	_ YES
		Claims		NO

#### 2. Citations and explanations (Rule 70.7)

The following documents were cited in the international search report:

Document 1: JP 2002-44958 A

Document 2: JP 6-351258 A

Document 3: JP 11-27953 A

Document 1 sets forth an AC-DC converter, and indicates that regenerated energy generated by the regeneration operation of the motor is returned to the inverter and converter side.

Documents 2 and 3 set forth DC power supplies for an inverter apparatus, wherein a separate capacitor is connected in parallel to a capacitor via a diode.

However, documents 1 to 3 neither disclose nor suggest the main feature of the invention set forth in claim 1 of this application, which is an motor drive inverter control apparatus, wherein said apparatus is provided with a first capacitor which is connected in parallel with the output of the rectifier circuit, and a second capacitor which is connected in parallel to the aforementioned first capacitor via a diode; the capacity of the first capacitor is such that the ripple content of

International application No.
PCT/JP2004/016971

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the input voltage of the aforementioned inverter circuit is 90% or more in the actual working range when driving the aforementioned motor; and the regenerated energy of the motor is absorbed by the aforementioned first capacitor and the aforementioned second capacitor.

Therefore the invention set forth in claim 1 is novel and involves an inventive step.

In addition, the invention set forth in claims 2 to 4 and 6 to 14 refers back to claim 1, further delimiting said claim, and similarly is novel and involves an inventive step.

The invention set forth in claims 1 to 4 and 6 to 14 is obviously industrially applicable.